

In re Application of: Shlomo NAVARRO et al
Serial No.: 10/816,861
Filed: April 5, 2004
Office Action Mailing Date: February 4, 2009

Examiner: Neil S. Levy
Group Art Unit: 1615
Attorney Docket: 25706

In the claims:

1. (Currently Amended) A composition-of-matter comprising a packaging material and a pest control composition comprising ~~at least one of a sesquiterpene alcohol, a sesquiterpene alcohol with *ar*-turmerone, a turmeric oleoresin solid residue, a turmeric oleoresin solid residue with a sesquiterpene alcohol, and a combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue~~, said pest control composition being incorporated in or on said packaging material, wherein an amount of said sesquiterpene alcohol in said pest control composition is at least 10 % by weight, and wherein amounts of said *ar*-turmerone, said sesquiterpene alcohol and said turmeric oleoresin solid residue are selected such that said pest control composition exhibits insect repellant and antifeedant activities.

2. (Previously Presented) The composition-of-matter of claim 1, wherein a ratio of said packaging material to said pest control composition is selected at a range such that said composition-of-matter exhibits insect repellant and antifeedant activities.

3. (Previously Presented) The composition-of-matter of claim 2, wherein said range is selected such that a strength of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from that of an identical packaging material without said pest control composition.

4. (Previously Presented) The composition-of-matter of claim 2, wherein said range is selected such that a transparency of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from that of an identical packaging material without said pest control composition.

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5. (Previously Presented) The composition-of-matter of claim 2, wherein said range is selected such that an elasticity of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from that of an identical packaging material without said pest control composition.

6. (Previously Presented) The composition-of-matter of claim 2, wherein said range is selected such that a water permeability of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from that of an identical packaging material without said pest control composition.

7. (Previously Presented) The composition-of-matter of claim 2, wherein said range is selected such that a gas permeability of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from that of an identical packaging material without said pest control composition.

8. (Original) The composition-of-matter of claim 2, wherein said pest is an insect or a mite.

9. (Previously Presented) The composition-of-matter of claim 1, wherein said packaging material is a paper or a paperboard.

10. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a polymer.

11. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a textile.

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12. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a metal foil.

13. (Withdrawn) A composition for coating packaging material of packaged goods comprising a substance suitable for coating packaging material and at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

14. (Withdrawn) The composition of claim 13, wherein a ratio of said substance to said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, is selected at a range capable of preventing a pest from penetrating said packaging material coated with said composition.

15. (Withdrawn) The composition of claim 14, wherein said range is selected such that a strength of said packaging material coated with said composition is not substantially different from said packaging material coated with an identical composition without said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

16. (Withdrawn) The composition of claim 14, wherein said range is selected such that a transparency of said packaging material coated with said composition is not substantially different from said packaging material coated with an identical composition without said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

17. (Withdrawn) The composition of claim 14, wherein said range is selected such that an elasticity of said packaging material coated with said composition

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is not substantially different from said packaging material coated with an identical composition without said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

18. (Withdrawn) The composition of claim 14, wherein said range is selected such that a water permeability of said packaging material coated with said composition is not substantially different from said packaging material coated with an identical composition without said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

19. (Withdrawn) The composition of claim 14, wherein said range is selected such that a gas permeability of said packaging material coated with said composition is not substantially different from said packaging material coated with an identical composition without said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

20. (Withdrawn) The composition of claim 13, wherein said substance is a polymer.

21. (Withdrawn) The composition of claim 14, wherein said pest is an insect or a mite.

22. (Withdrawn) A packaged product comprising a product contained within a packaging material modified to include at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

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23. (Withdrawn) The packaged product of claim 22, wherein said product is a foodstuff.

24. (Withdrawn) The packaged product of claim 22, wherein said packaging material is impregnated or coated with said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

25. (Withdrawn) The packaged product of claim 22, wherein said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue is included at a concentration selected capable of preventing a pest from infesting said packaged product.

26. (Withdrawn) The packaged product of claim 25, wherein said pest is an insect or a mite.

27. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a paper or a paperboard.

28. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a polymer.

29. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a textile.

30. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a metal foil.

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31. (Withdrawn) A method of preventing pest infestation of packaged goods, comprising fabricating or modifying packaging material to include at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, at a concentration selected capable of preventing pest infestation of goods packaged within said packaging material.

32. (Withdrawn) The method of claim 31, wherein said packaging material is composed of a polymer.

33. (Withdrawn) The method of claim 31, wherein said packaging material is composed of a paper or a paperboard.

34. (Withdrawn) The method of claim 31, wherein said packaging material is composed of a textile.

35. (Withdrawn) The method of claim 31, wherein said packaging material is composed of a metal foil.

36. (Withdrawn) The method of claim 31, wherein said fabricating or modifying said packaging material to include at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue is effected by coating said packaging material with a laminate including said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

37. (Withdrawn) The method of claim 31, wherein said fabricating or modifying said packaging material to include said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, is effected by impregnating said packaging material with said at least one

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compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

38. (Withdrawn) The method of claim 31, wherein said fabricating or modifying said packaging material to include said at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, is effected by coating a margin used for welding or gluing said packaging material with a coating substance including at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

39. (Withdrawn) A method of producing a pest impervious packaging material, comprising:

- (a) modifying a composition used in fabrication of packaging material to include at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue; and
- (b) using said composition resultant from step (a) to fabricate the packaging material thereby producing the pest impervious packaging material

40. (Withdrawn) The method of claim 39, wherein said composition includes a polymer.

41. (Withdrawn) The method of claim 39, wherein said composition includes a paper or a paperboard.

42. (Withdrawn) The method of claim 39, wherein said composition includes a textile.

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43. (Withdrawn) The method of claim 39, wherein said composition includes a metal foil.

44. (Withdrawn) A pest control composition comprising an effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue.

45. (Withdrawn) The pest control composition of claim 44, wherein the pest is an insect or a mite.

46. (Withdrawn) The pest control composition of claim 44, further comprising a carrier.

47. (Withdrawn) The pest control composition of claim 46, wherein said effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue is at least 10% on a wt/wt basis.

48. (Withdrawn) The pest control composition of claim 46, wherein said effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue is at least 5% on a wt/wt basis.

49. (Canceled)

50. (Withdrawn) A method of controlling pest infestation, comprising exposing the pest to a composition comprising an effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue, thereby controlling pest infestation.

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51. (Withdrawn) The method of claim 50, wherein said exposing is effected by a method selected from the group consisting of spraying, soaking, dipping, drenching, mixing, impregnating, fumigating, fogging, coating and dusting.

52. (Withdrawn) An article-of-manufacturing comprising a container and a pest control composition including an effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue and being identified for the use in pest control.

53. (Withdrawn) The article-of-manufacturing of claim 52, wherein the pest is an insect or a mite.

54. (Withdrawn) The article-of-manufacturing of claim 52, wherein said pest control composition further comprising a carrier.

55. (Withdrawn) A pest-impervious sheet, comprising at least one layer of a sheet material and at least one compound selected from the group consisting of *ar*-turnerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.

56. (Withdrawn) The pest-impervious sheet of claim 55, wherein said sheet material includes a substance selected from the group consisting of a polymer, a paper, a paperboard, a textile and a metal foil.

57. (Withdrawn) The pest-impervious sheet of claim 56, wherein said sheet material further includes said at least one compound.

58. (Withdrawn) The pest-impervious sheet of claim 55 further comprising a coating substance including said at least one compound.

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59. (Withdrawn) The pest-impervious sheet of claim 55, wherein said at least one layer is a plurality of layers.

60. (Withdrawn) The pest-impervious sheet of claim 59 further comprising an adhesive between layers of said plurality of layers said adhesive including said at least one compound.